

AMENDED CLAIMS

1. (original) A dual-purpose magnetic-tape cartridge for alternative use in Magstar or LTO automated picker systems, comprising:

a magnetic-tape cartridge having a top side, a bottom side, a front side, a rear side, two lateral sides, and a sloped face in the rear side conforming to Magstar format specifications;

wherein a rear portion of each lateral side contains a recessed surface offset by about 1.8 mm therefrom and extending forward from said rear side; and said recessed surface further contains a gripping notch at least 4.75 mm deep, extending at least 8.70 mm in height from said bottom side, and extending about 6.00 mm in width from approximately 14 mm to approximately 20 mm from said rear side of the cartridge.

2. (original) The cartridge of Claim 1, wherein said sloped face does not extend to said lateral sides of the cartridge.

3. (original) The cartridge of Claim 2, wherein said sloped face extends at least 67 mm.

4. (original) The cartridge of Claim 2, further comprising a beveled corner surface connecting said rear side to each of said lateral sides.

5. (original) The cartridge of Claim 1, further comprising a leader block assembly incorporated within an opening located between said left and front sides of the cartridge.

6. (original) The cartridge of Claim 1, further comprising a leader pin assembly incorporated within an opening located between said left and front sides of the cartridge.

7. (original) The cartridge of Claim 2, further comprising a leader block assembly incorporated within an opening located between said left and front sides of the cartridge.

8. (original) The cartridge of Claim 2, further comprising a leader pin assembly incorporated within an opening located between said left and front sides of the cartridge.

9. (original) The cartridge of Claim 4, further comprising a leader block assembly incorporated within an opening located between said left and front sides of the cartridge.

10. (original) The cartridge of Claim 4, further comprising a leader pin assembly incorporated within an opening located between said left and front sides of the cartridge.

11. (canceled)

12. (currently amended) ~~The cartridge of Claim 11,~~ A dual-purpose magnetic-tape cartridge for alternative use in Magstar or LTO robotic systems, comprising:

a magnetic-tape cartridge having a top side, a bottom side, a front side, a rear side, two lateral sides, and a sloped face in the rear side conforming to Magstar format specifications;

wherein said bottom side contains first and second locating notches for engagement with corresponding locating pins in a drive and a V-shaped notch for initial alignment of the cartridge within the drive;

wherein said first locating notch is an approximately square hole at least 5 mm deep and with a side of $3.00\text{ mm} \pm 0.08\text{ mm}$, and said hole has a center located $20.50\text{ mm} \pm 0.20\text{ mm}$ from said front side of the cartridge;

wherein said second locating notch is an approximately oval aperture at least 5 mm deep, with a major dimension of at least 4.8 mm parallel to the cartridge's front side and a minor dimension of $3.00\text{ mm} \pm 0.08\text{ mm}$, and said aperture has a center

20.50 mm \pm 0.20 mm from the front side of the cartridge and 86.15 mm \pm 0.25 mm from the center of the first locating notch;

wherein said V-shaped notch is at least 8.90 mm deep and has a rounded bottom with a maximum radius of 1.50 mm centered about 5.05 mm from the front side of the cartridge; and the V-shaped notch has sides that extend from the rounded bottom toward the front side of the cartridge at an angle of 60 degrees \pm 1 degree; and

wherein said first and second locating notches are positioned about 13.25 mm from the left side and about 9.60 mm from the right side of the cartridge, respectively.

13. (currently amended) ~~The cartridge of Claim 11,~~ A dual-purpose magnetic-tape cartridge for alternative use in Magstar or LTO robotic systems, comprising:

a magnetic-tape cartridge having a top side, a bottom side, a front side, a rear side, two lateral sides, and a sloped face in the rear side conforming to Magstar format specifications;

wherein said bottom side contains first and second locating notches for engagement with corresponding locating pins in a drive and a V-shaped notch for initial alignment of the cartridge within the drive;

wherein said first locating notch is an approximately square hole at least 5 mm deep and with a side of 3.00 mm \pm 0.08 mm, and

said hole has a center located 20.50 mm \pm 0.20 mm from said front side of the cartridge;

wherein said second locating notch is an approximately oval aperture at least 5 mm deep, with a major dimension of at least 4.8 mm parallel to the cartridge's front side and a minor dimension of 3.00 mm \pm 0.08 mm, and said aperture has a center 20.50 mm \pm 0.20 mm from the front side of the cartridge and 86.15 mm \pm 0.25 mm from the center of the first locating notch;

wherein said V-shaped notch is at least 8.90 mm deep and has a rounded bottom with a maximum radius of 1.50 mm centered about 5.05 mm from the front side of the cartridge; and the V-shaped notch has sides that extend from the rounded bottom toward the front side of the cartridge at an angle of 60 degrees \pm 1 degree;
and

wherein said rounded bottom of the V-shaped notch is centered about 13.80 mm from the right side of the cartridge.

14. (original) The cartridge of Claim 12, wherein said rounded bottom of the V-shaped notch is centered about 13.80 mm from the right side of the cartridge.

15. (original) The cartridge of Claim 12, wherein said bottom side includes a hub with a window for engagement with a spindle of a motor in the drive, and said window has a center positioned

about 51.00 mm from the front side and about 55.70 mm from the left side of the cartridge.

16. (original) The cartridge of Claim 14, wherein said bottom side includes a hub with a window for engagement with a spindle of a motor in the drive, and said window has a center positioned about 51.00 mm from the front side and about 55.70 mm from the left side of the cartridge.

17. (currently amended) ~~The cartridge of Claim 11,~~ A dual-purpose magnetic-tape cartridge for alternative use in Magstar or LTO robotic systems, comprising:

a magnetic-tape cartridge having a top side, a bottom side, a front side, a rear side, two lateral sides, and a sloped face in the rear side conforming to Magstar format specifications;

wherein said bottom side contains first and second locating notches for engagement with corresponding locating pins in a drive and a V-shaped notch for initial alignment of the cartridge within the drive;

wherein said first locating notch is an approximately square hole at least 5 mm deep and with a side of 3.00 mm \pm 0.08 mm, and said hole has a center located 20.50 mm \pm 0.20 mm from said front side of the cartridge;

wherein said second locating notch is an approximately oval aperture at least 5 mm deep, with a major dimension of at least 4.8 mm parallel to the cartridge's front side and a minor dimension of $3.00\text{ mm} \pm 0.08\text{ mm}$, and said aperture has a center $20.50\text{ mm} \pm 0.20\text{ mm}$ from the front side of the cartridge and $86.15\text{ mm} \pm 0.25\text{ mm}$ from the center of the first locating notch;

wherein said V-shaped notch is at least 8.90 mm deep and has a rounded bottom with a maximum radius of 1.50 mm centered about 5.05 mm from the front side of the cartridge; and the V-shaped notch has sides that extend from the rounded bottom toward the front side of the cartridge at an angle of $60\text{ degrees} \pm 1\text{ degree}$; and

wherein a rear portion of each lateral side contains a recessed surface offset by about 1.8 mm therefrom and extending forward from said rear side; and said recessed surface further contains a gripping notch at least 4.75 mm deep, extending at least 8.70 mm in height from said bottom side, and extending about 6.00 mm in width from approximately 14 mm to approximately 20 mm from said rear side of the cartridge.

18. (original) The cartridge of Claim 17, wherein said sloped face does not extend to said lateral sides of the cartridge.

19. (original) The cartridge of Claim 18, wherein said sloped face extends at least 67 mm.

20. (original) The cartridge of Claim 18, further comprising a beveled corner surface connecting said rear side to each of said lateral sides.

21. (currently amended) The cartridge of Claim ~~11~~12, further comprising a leader block assembly incorporated within an opening located between said left and front sides of the cartridge.

22. (currently amended) The cartridge of Claim ~~11~~12, further comprising a leader pin assembly incorporated within an opening located between said left and front sides of the cartridge.

23. (original) The cartridge of Claim 16, wherein a rear portion of each lateral side contains a recessed surface offset by about 1.8 mm therefrom and extending forward from said rear side; and said recessed surface further contains a gripping notch at least 4.75 mm deep, extending at least 8.70 mm in height from said bottom side, and extending about 6.00 mm in width from approximately 14 mm to approximately 20 mm from said rear side of the cartridge.

24. (original) The cartridge of Claim 23, wherein said sloped face does not extend to said lateral sides of the cartridge.

25. (original) The cartridge of Claim 24, wherein said sloped face extends at least 67 mm.

26. (original) The cartridge of Claim 24, further comprising a beveled corner surface connecting said rear side to each of said lateral sides.

27. (original) The cartridge of Claim 26, further comprising a leader block assembly incorporated within an opening located between said left and front sides of the cartridge.

28. (original) The cartridge of Claim 26, further comprising a leader pin assembly incorporated within an opening located between said left and front sides of the cartridge.